

STANDARD MODULE

(ALL BLACK MODULE IS OPTIONAL)



Cetesolar 48

220-240 Watt

MONO CRYSTALLINE MODULE

Positive power tolerance of 0~+3%

ISO9001:2008、ISO14001:2004、OHSAS18001 certified factory.
IEC61215、IEC61730 certified products.

(4BB)



KEY FEATURES



4 Busbar Solar Cell:

4 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Efficiency:

Higher module conversion efficiency (up to 18.27%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



PID RESISTANT:

Limited power degradation of Eagle module caused by PID effect is guaranteed under strict testing condition (85 C /85%RH,96hours) for mass production.



Low-light Performance:

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

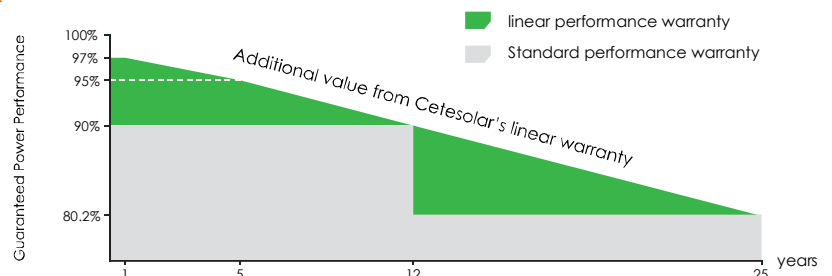


Durability against extreme environmental conditions:

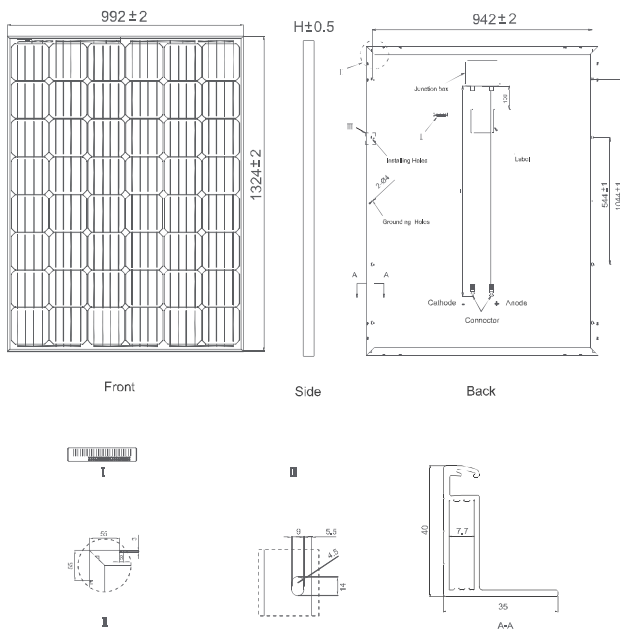
High salt mist and ammonia resistance certified by TUV NORD.

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



Engineering Drawings

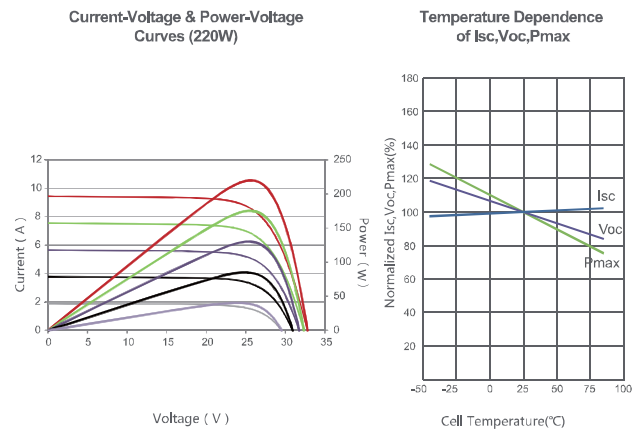


Packaging Configuration

(Two boxes=One pallet)

26pcs/box, 52pcs/pallet, 832 pcs/40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono-crystalline PERC	156×156mm (6 inch)
No. of cells	48 (6×8)	
Dimensions	1324×992×40mm	
Weight	14.8 kg	
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP67 Rated	
Output Cables	TÜV 1×4.0mm ² ; Length: 900mm or Customized Length	

SPECIFICATIONS

Module Type	CS220M-48		CS225M-48		CS230M-48		CS235M-48		CS240M-48	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	220Wp	161Wp	225Wp	165Wp	230Wp	169Wp	235Wp	173Wp	240Wp	177Wp
Maximum Power Voltage (Vmp)	25.3V	23.7V	25.5V	23.9V	25.7V	24.1V	25.9V	24.3V	26.1V	24.5V
Maximum Power Current (Imp)	8.70A	6.80A	8.83A	6.91A	8.95A	7.02A	9.08A	7.12A	9.20A	7.23A
Open-circuit Voltage (Voc)	31.0V	28.8V	31.3V	29.0V	31.6V	29.2V	31.8V	29.4V	32.1V	29.6V
Short-circuit Current (Isc)	9.33A	7.54A	9.45A	7.63A	9.51A	7.75A	9.63A	7.87A	9.72A	8.05A
Module Efficiency STC (%)	16.75%		17.13%		17.51%		17.89%		18.27%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000VDC (IEC)									
Maximum series fuse rating	15A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.39%/°C									
Temperature coefficients of Voc	-0.29%/°C									
Temperature coefficients of Isc	0.05%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

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